

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P959744

Luminaire Tested: **NAV-SB1B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4760.1 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

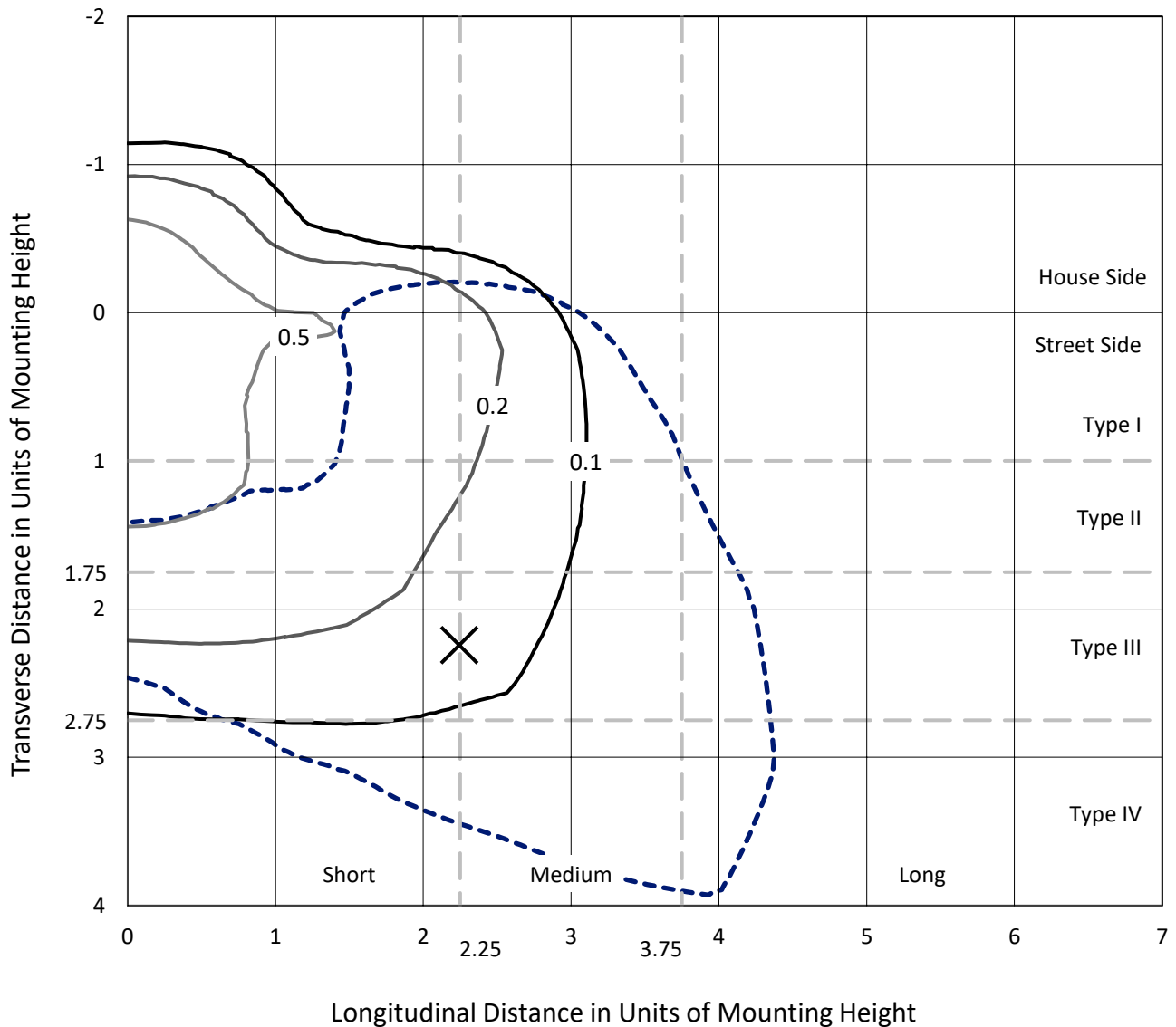
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

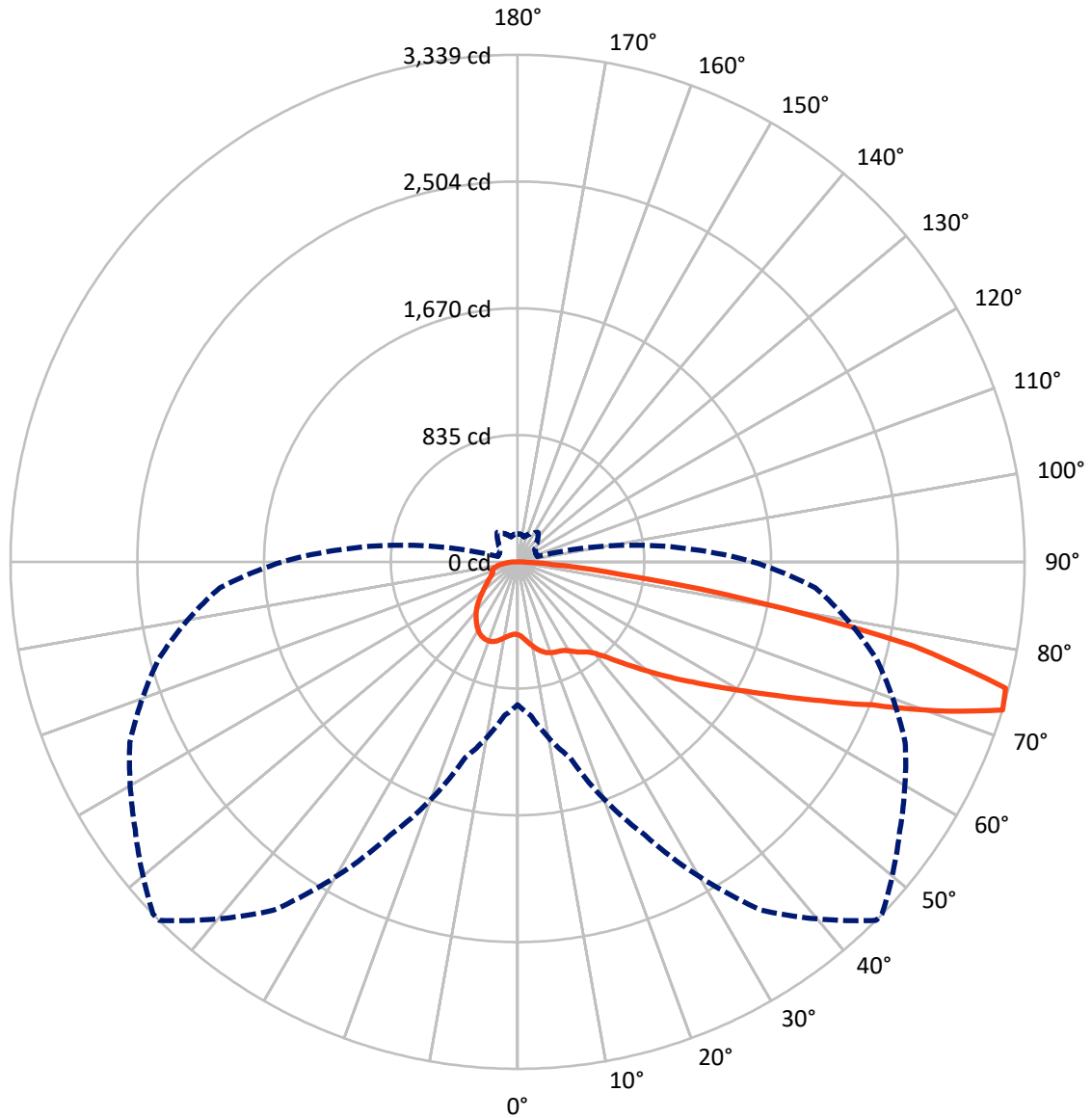
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1076.1	0.0	1076.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3684.0	0.0	3684.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	4760.1	0.0	4760.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.0
10°-20°	163.0	3.4
20°-30°	283.5	6.0
30°-40°	406.4	8.5
40°-50°	572.2	12.0
50°-60°	876.4	18.4
60°-70°	1269.6	26.7
70°-80°	1013.9	21.3
80°-90°	126.3	2.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4760.1	100.0
0°-180°	4760.1	100.0

Coefficient of Utilization

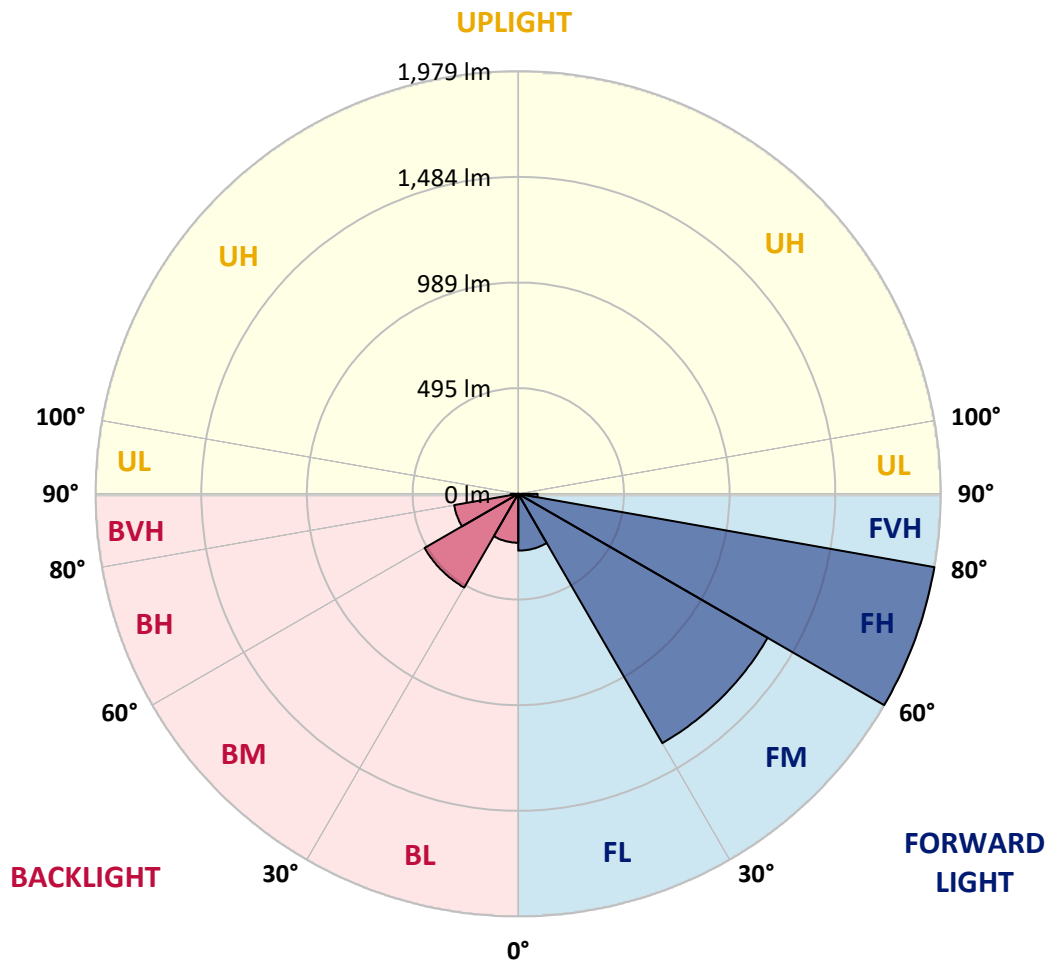


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.2	5.6			
FM (30°-60°)	1348.3	28.3			
FH (60°-80°)	1978.9	41.6			G2/5000
FVH (80°-90°)	90.6	1.9			G1/100
BL (0°-30°)	229.1	4.8	B1/500		
BM (30°-60°)	506.7	10.6	B1/1000		
BH (60°-80°)	304.6	6.4	B1/500		G1/500
BVH (80°-90°)	35.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
2.5°	499.0	502.2	499.3	496.5	495.3	492.0	491.7	489.7	488.5	484.9	484.0
5°	533.8	538.1	533.1	527.6	522.5	514.6	513.5	507.8	501.2	493.7	489.4
7.5°	573.3	577.0	571.2	562.9	554.2	540.9	540.6	530.1	519.8	507.1	499.8
10°	607.6	612.6	604.9	593.6	582.5	567.4	565.7	553.7	540.6	524.1	513.0
12.5°	638.0	641.4	634.0	620.1	607.3	592.2	590.0	576.8	562.2	543.4	529.3
15°	662.0	666.6	656.5	641.6	628.1	613.4	611.3	599.3	584.8	565.0	546.9
17.5°	677.8	681.5	671.3	654.8	641.6	629.5	627.9	617.9	605.1	585.0	565.7
20°	683.8	687.9	677.0	660.2	648.2	638.7	638.0	630.7	621.9	603.6	584.0
22.5°	689.8	693.6	679.6	662.0	651.5	645.4	645.2	640.4	636.9	621.9	602.8
25°	714.1	715.1	696.4	671.1	656.0	650.7	650.5	650.3	651.7	639.9	623.1
27.5°	735.2	734.9	718.9	695.1	671.8	660.7	660.5	663.0	667.8	657.9	644.2
30°	766.1	763.3	744.3	719.4	698.1	681.0	679.6	677.3	681.0	673.3	665.2
32.5°	831.5	822.8	791.9	747.7	720.0	706.8	704.9	690.8	692.4	687.6	683.6
35°	925.3	913.8	872.7	801.4	747.0	728.5	727.4	709.6	706.6	702.3	703.9
37.5°	1036.9	1022.5	974.7	879.1	793.7	753.5	752.0	735.9	723.6	719.1	727.7
40°	1148.9	1130.9	1091.3	974.0	862.3	795.4	790.7	766.3	752.2	744.8	762.8
42.5°	1257.8	1242.7	1208.9	1080.2	947.1	856.6	846.0	804.4	793.9	786.9	819.5
45°	1354.1	1340.6	1315.7	1193.8	1046.4	939.8	929.6	861.6	858.3	858.3	905.5
47.5°	1432.3	1429.4	1403.0	1309.7	1163.5	1034.6	1016.8	941.1	949.9	963.4	1027.6
50°	1519.0	1510.8	1482.8	1423.8	1301.1	1143.2	1128.6	1038.6	1071.5	1108.6	1204.2
52.5°	1598.8	1603.3	1572.0	1542.6	1456.6	1264.3	1238.7	1153.7	1224.7	1286.2	1411.0
55°	1680.8	1681.1	1672.3	1668.3	1619.6	1398.2	1370.1	1292.1	1405.0	1481.2	1652.2
57.5°	1757.8	1758.3	1771.4	1806.7	1808.7	1552.7	1520.9	1462.2	1605.4	1683.0	1901.0
60°	1826.6	1830.0	1865.6	1948.4	1975.0	1729.7	1699.7	1663.1	1812.5	1890.7	2162.5
62.5°	1849.6	1862.4	1941.7	2059.2	2139.2	1946.9	1917.3	1895.4	2030.1	2102.9	2381.2
65°	1810.5	1839.8	1993.0	2150.8	2308.2	2204.9	2175.6	2151.8	2256.3	2324.8	2560.8
67.5°	1714.4	1752.3	1990.0	2246.8	2513.3	2515.4	2488.0	2432.1	2498.8	2525.1	2619.2
70°	1461.4	1518.1	1814.8	2282.7	2748.8	2939.9	2913.6	2769.7	2740.7	2613.4	2454.7
72.5°	941.6	1017.8	1336.3	1987.5	2801.2	3339.3	3337.8	3074.3	2817.3	2441.9	1968.7
75°	343.6	390.2	620.8	1247.5	2351.4	3319.1	3328.8	3022.1	2571.7	1886.2	1226.4
77.5°	125.2	136.9	202.6	479.5	1446.1	2663.1	2683.3	2416.0	1830.5	946.6	486.0
80°	65.7	72.3	103.8	186.0	619.6	1581.6	1613.4	1435.8	860.4	285.2	145.7
82.5°	36.4	39.4	58.2	101.1	279.1	676.3	695.4	567.2	302.7	120.8	60.2
85°	19.6	20.8	27.4	55.1	136.4	234.4	239.7	169.5	120.6	70.9	29.1
87.5°	5.7	7.0	9.0	17.5	53.4	52.7	53.9	33.6	47.7	35.9	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
2.5°	482.5	481.7	479.0	477.6	476.2	475.9	477.2	477.4	477.6	478.0	479.0
5°	487.0	484.4	482.0	480.4	480.9	481.2	483.7	485.4	486.7	487.7	488.2
7.5°	495.8	493.7	489.4	489.2	489.9	492.2	495.5	499.5	501.7	503.5	504.0
10°	508.8	505.0	500.0	500.7	502.2	505.5	512.3	515.6	519.4	522.5	521.8
12.5°	522.0	518.9	513.0	513.5	516.1	521.8	528.4	532.4	534.8	537.4	538.3
15°	539.4	533.6	527.4	527.4	531.9	538.1	541.1	544.4	545.9	548.7	549.7
17.5°	557.2	549.7	541.4	540.9	546.4	549.4	551.1	551.7	552.2	555.1	556.2
20°	575.0	566.7	554.9	553.9	555.1	554.6	554.4	553.9	554.6	558.4	560.0
22.5°	592.6	583.0	566.7	562.2	558.7	553.9	553.7	553.4	553.9	557.7	560.2
25°	613.1	601.6	579.7	566.2	554.4	547.9	548.7	548.9	549.4	552.4	556.5
27.5°	635.4	622.6	591.8	565.0	543.7	539.2	537.9	538.6	540.4	545.2	549.9
30°	657.7	642.7	602.8	560.0	530.1	523.9	519.8	521.6	527.1	531.9	537.1
32.5°	678.0	663.0	611.6	548.9	512.8	503.1	497.7	500.0	505.5	507.3	513.5
35°	701.9	684.8	615.4	531.4	493.9	479.0	471.9	468.6	471.4	469.7	475.2
37.5°	728.5	710.6	614.9	508.3	471.9	454.6	444.8	432.6	426.8	420.8	424.6
40°	767.8	742.2	608.8	480.4	444.6	428.8	411.2	390.4	377.4	365.6	366.3
42.5°	821.4	786.2	597.8	449.9	413.8	398.9	375.2	350.9	330.3	310.7	308.9
45°	901.5	843.6	584.0	417.3	380.4	365.8	340.0	312.7	289.4	264.3	261.3
47.5°	1016.8	920.8	570.9	380.2	345.3	332.0	308.7	283.3	255.7	231.4	228.7
50°	1175.3	1031.7	558.9	344.0	310.7	300.6	282.1	256.2	228.5	208.9	207.7
52.5°	1376.9	1182.3	553.9	309.1	278.4	274.6	259.7	235.7	209.4	192.8	191.6
55°	1608.3	1362.6	553.9	275.8	250.0	251.2	241.0	218.6	195.9	181.0	179.6
57.5°	1844.6	1545.2	543.9	245.0	225.9	231.2	224.7	205.1	184.6	169.2	166.8
60°	2062.2	1698.1	503.3	216.9	204.6	212.9	208.6	191.9	166.8	154.0	152.0
62.5°	2229.5	1784.4	425.1	194.5	187.1	196.6	194.3	174.2	163.5	158.3	156.5
65°	2313.2	1770.4	325.0	174.8	172.3	187.1	182.3	181.5	173.0	167.0	165.0
67.5°	2261.9	1649.5	235.7	160.2	163.8	178.2	196.6	199.6	183.8	172.0	170.0
70°	2036.4	1430.8	175.5	146.5	152.9	178.6	224.2	208.9	180.3	166.5	164.2
72.5°	1549.2	1067.0	136.1	131.9	138.9	179.8	236.5	204.6	170.3	184.1	182.6
75°	885.9	585.8	109.4	114.1	121.4	168.0	230.2	193.6	162.5	169.0	169.0
77.5°	337.7	225.2	90.3	96.6	97.6	146.7	220.2	192.8	154.7	151.0	137.7
80°	117.1	88.0	74.7	76.8	75.4	130.4	211.2	167.8	126.6	113.4	109.6
82.5°	47.9	43.9	59.1	56.7	53.7	101.3	170.6	137.1	103.5	91.5	90.5
85°	20.8	27.9	39.2	34.3	31.1	70.2	136.6	116.1	87.5	75.4	75.2
87.5°	4.3	10.6	16.5	15.6	16.1	46.8	97.1	82.5	61.9	46.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)